DTIC Online Modernization

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Mission of DROLS Modernization Effort

- Purpose
  - To provide for the development, coordination, design and implementation of a modernized architecture for DTIC's online systems, while reducing maintenance and increasing functionality
- Infrastructure, not content - others working on content

Vision of Eventual System

- Web-based Graphical User Interface
- Novice and advanced search interfaces
- Internet/NIPRNET/SIPRNET access plus dial-up
- 2 system high systems - Unclassified and Unclassified to Secret
  - System handles limitations within system
- Individual passwords/accounts for accountability

Vision of Eventual System (cont'd)

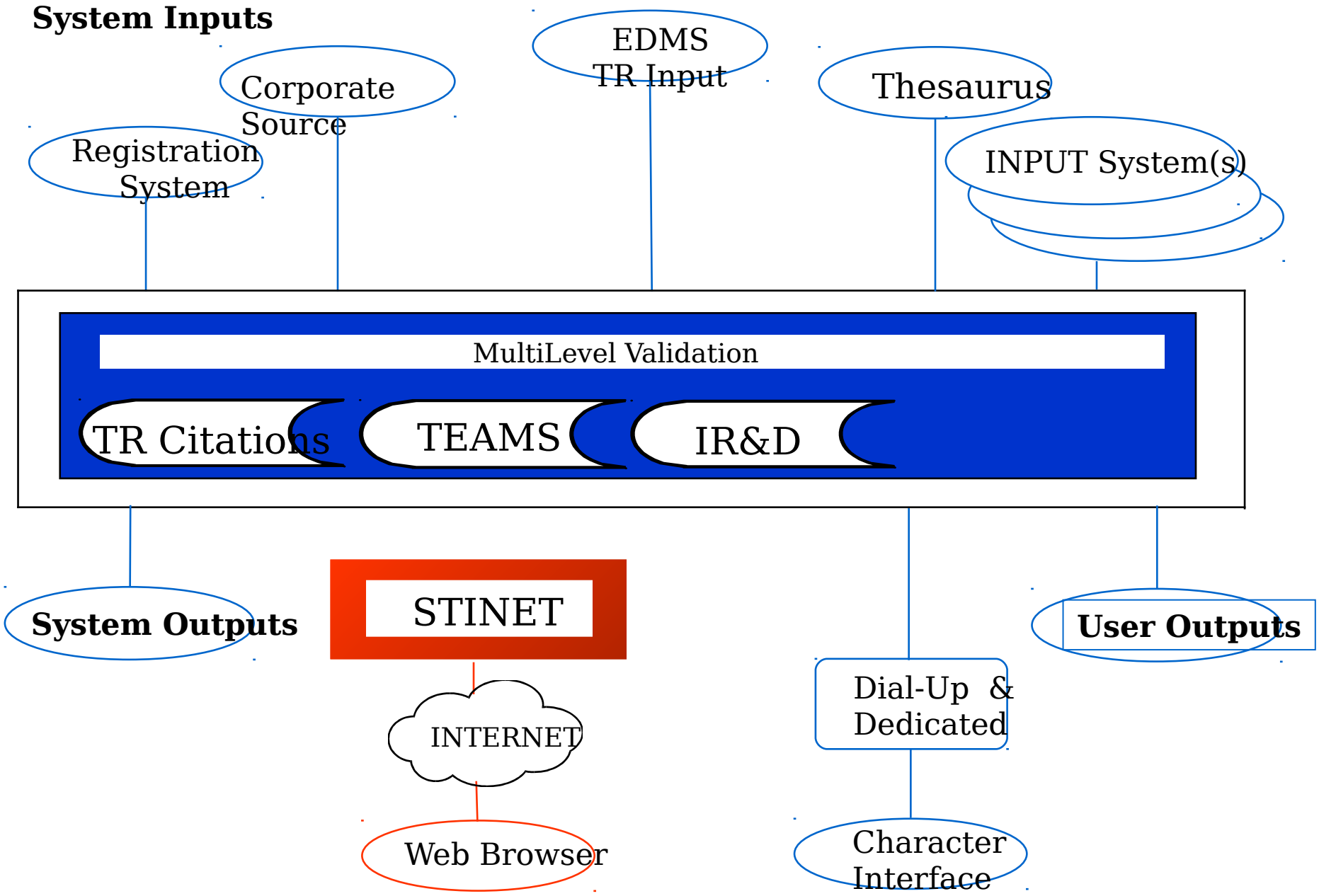
- Search entire TR and search subsets of TR (by doc type, specialized subjects, etc)
- Search across databases for common fields
- Linking within and across databases
- Online display/delivery of full text documents, some documents searchable full text

Vision of Eventual System (cont'd)

- Use government and industry standards
- Be as search engine independent as possible
- 3 Tier design
  - One version of the data for each database, with different software accessing it for different purposes

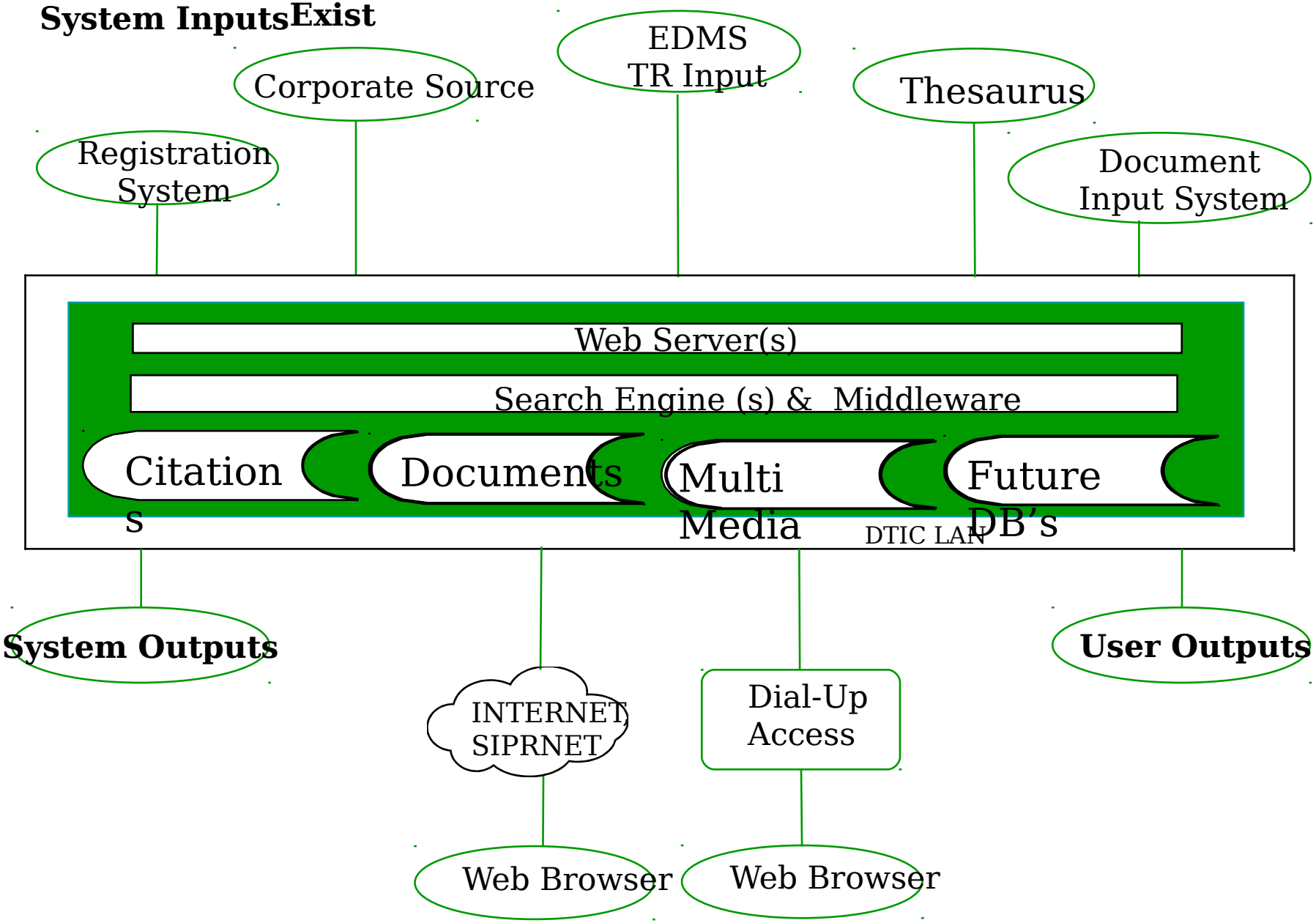
Current DROLS System

Effectively Multilevel Secure



DROLS Replacement System

Unclassified and Secret System High Versions will Exist



Approach

- Rethinking basic assumptions to see if still valid
- Flexibility is the highest requirement
- PMO in coordination and planning role
- Long term effort, move modularly to new architecture
- Continue to run old system during transition, estimate Secret system to FY 2002 or 2003

Approach (cont'd)

- **Short term:**
- **TR** - S-STINET and Web Enabling DROLS (WED)
- **TEAMS** -
  - Legacy data will be combined into Research Awareness Initiative (RAI), Web-accessible
  - Use STINT for input and multiple tools for retrieval
- **IR&D** - Reengineering this year in S-STINET
- **Longer term:**
- Will integrate into one stop shop with searching across databases

New TR Data Elements

- New data elements specs are being sent to the EDMS developers
- Eventual implementation
  - Modify EDMS (the TR input system) first
  - For interim, EDMS can feed both old and new formats
  - Data exchanges can continue in current format (STILAS, CENDI)
  - STINET can use new data elements while DROLS is being modified

Future years plan

- Unclassified Web-Enabled DROLS - **2nd Qtr FY 2000**
- Remove unclassified users from legacy DROLS - **2nd Qtr 2000**
- Classified Web-Enabled DROLS - **early 2001**
- Remove all access to legacy DROLS - **2002-3**

Telecom plans

- All dedicated lines will have to transition to Web lines (Internet, NIPRNET, or SIPRNET)
- DISA assures us contractor dial-up to SIPRNET will be there soon
- DTIC has asked JCS if DTIC can be contractors' sponsor to SIPRNET for just DROLS and charge back cost
- DTIC will work with you on options and helping determine procedures

FY 1999 Accomplishments

Creating a Web Version of DROLS TR

- Web access with the features of DROLS
- Modularity and 3 tier design
- All the unclassified TR citations (limited and unlimited)
- Advanced search capability using a commercial search engine (Verity).
- Use Verity Topics for hierarchies

Creating a Web Version of DROLS TR (Cont'd)

- Will replace legacy DROLS (unclassified and classified versions).
- Plan to integrate it with Secure STINET.
- Expect to be operational by Mar 2000 (unclass)
- See next talk for more details
- Demo version available at the Exhibit Room
- Please give us feedback

STINET conversion to Fulcrum

- Public STINET was converted to Fulcrum from WAIS with new interface in Mar 1999
- Secure STINET was converted to Fulcrum with new interface in Jun 1999

IR&D Reengineering

- Input by FTP or disk
- Will be part of S-STINET by Winter
- CD will still be generated for now for those who prefer CD

TR input

- General version -
  - Will accept PDF
  - For all contributors
- STINT version -
  - For STINT users
  - Will fill in certain fields automatically
  - Will accept any format of text file
- Available - soon

User Needs Assessment SIPRNET

- Contacted all dedicated line and classified sites (50+ sites)
- Gave SIPRNET contacts, costs
- Entire spectrum of answers, each envir. dif.
- Found out contractor problems with getting one sponsor for the libraries
- We will work with users

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Study Classified/SIPRNET Architecture Issues

- Discussed transition with SIPRNET PM
- Determined how users transition
- Determined firewall architecture
- Discussed options of connecting DTIC Net to SIPRNET
- Looked into rules for NATO and CNWDI

Multimedia

- Started an in-house cross-directorate team to discuss multimedia issues
  - cataloging, storage, delivery, preservation
- Want to move Defense Virtual Library lessons into organization
- Avoid Catch 22
- Need samples of formats don’t now take so can determine how to handle them

Electronic Commerce

- Credit card validation done through Dept of Treasury rather than NTIS

OO TR Bibs project

- Began to look at reengineering TR Bibs process
- First project using Object Oriented design techniques
- Change will be transparent to users
- Will combine software of CAB, ECAB, TRAIL, TR Bibs to generate them the same way

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Summary of Planned FY 2000 Efforts

- Operational Unclassified WED TR (move all unclassified users to it)
- Prototype Classified WED TR
- Implement classified security architecture
- IR&D Reengineering
- Look into STINET/WED integration; convert STINET to Verity

Summary of Planned FY 2000 Efforts (Cont'd)

- Real-time credit card validation online
- Continue TR Bibs reengineering
- Registration system upgrades (register individuals)
- Examine more multimedia issues; determine how to handle new formats
- Try to keep users informed of changes through listservs and announcements

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We would be happy to take any input, especially in the areas of

- **SIPRNET issues**
- **Comments on WED and how to integrate it with STINET**

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Web Enabled DROLS

A Marriage of the Old and the New

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